pa1030: Box multiplication of linear binomials (v8)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3
2x	$12x^2$	6x
4	24x	12

$12x^2 + 6x + 24x + 12$

Combine
like
terms.

$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(9x + 5)$ and $(3x + 8)$.

*	9x	5
3x	$27x^2$	15x
8	72x	40

ANSWER: $27x^2 + 87x + 40$

Question 2

Use the box method to multiply $(-8x + 3)$ and $(-7x - 2)$.

*	$-8x$	3
$-7x$	$56x^2$	$-21x$
-2	$16x$	-6

ANSWER: $56x^2 - 5x - 6$

Question 3

Use the box method to multiply $(7x + 9)$ and $(5x - 4)$.

*	$7x$	9
$5x$	$35x^2$	$45x$
-4	$-28x$	-36

ANSWER: $35x^2 + 17x - 36$